Hanna Sopha

List of Publications by Year
in descending order

79	1,852	186265 28	289244 40
papers	citations	h-index	g-index

81	81	81	2165
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly efficient photoelectrochemical and photocatalytic anodic TiO2 nanotube layers with additional TiO2 coating. Applied Materials Today, 2017, 9, 104-110.	4.3	83
2	Influence of annealing temperatures on the properties of low aspect-ratio TiO2 nanotube layers. Electrochimica Acta, 2016, 213, 452-459.	5.2	79
3	One-dimensional anodic TiO2 nanotubes coated by atomic layer deposition: Towards advanced applications. Applied Materials Today, 2019, 14, 1-20.	4.3	78
4	Atomic Layer Deposition for Coating of High Aspect Ratio TiO₂ Nanotube Layers. Langmuir, 2016, 32, 10551-10558.	3.5	74
5	Effect of electrolyte age and potential changes on the morphology of TiO2 nanotubes. Journal of Electroanalytical Chemistry, 2015, 759, 122-128.	3.8	67
6	One-Step Decoration of TiO₂ Nanotubes with Fe₃O₄ Nanoparticles: Synthesis and Photocatalytic and Magnetic Properties. ACS Applied Nano Materials, 2020, 3, 1553-1563.	5.0	63
7	ALD Al₂O₃-Coated TiO₂Nanotube Layers as Anodes for Lithium-Ion Batteries. ACS Omega, 2017, 2, 2749-2756.	3.5	60
8	ZnO Coated Anodic 1D TiO₂ Nanotube Layers: Efficient Photoâ€Electrochemical and Gas Sensing Heterojunction. Advanced Engineering Materials, 2018, 20, 1700589.	3.5	48
9	Anodic TiO2 nanotubes decorated by Pt nanoparticles using ALD: An efficient electrocatalyst for methanol oxidation. Journal of Catalysis, 2018, 365, 86-93.	6.2	45
10	Electrochemical Infilling of CuInSe₂ within TiO₂ Nanotube Layers and Subsequent Photoelectrochemical Studies. ChemElectroChem, 2017, 4, 495-499.	3.4	44
11	Atomic Layer Deposition Al₂O₃ Coatings Significantly Improve Thermal, Chemical, and Mechanical Stability of Anodic TiO₂ Nanotube Layers. Langmuir, 2017, 33, 3208-3216.	3.5	44
12	A New Type of Bismuth Electrode for Electrochemical Stripping Analysis Based on the Ammonium Tetrafluorobismuthate Bulkâ€Modified Carbon Paste. Electroanalysis, 2010, 22, 1489-1493.	2.9	41
13	Enzymeâ€Photocatalyst Tandem Microrobot Powered by Urea for Escherichia coli Biofilm Eradication. Small, 2022, 18, e2106612.	10.0	41
14	Insights into the simultaneous chronopotentiometric stripping measurement of indium(III), thallium(I) and zinc(II) in acidic medium at the in situ prepared antimony film carbon paste electrode. Electrochimica Acta, 2010, 55, 7929-7933.	5.2	40
15	Self-organized Anodic TiO2 Nanotube Layers: Influence of the Ti substrate on Nanotube Growth and Dimensions. Electrochimica Acta, 2016, 190, 744-752.	5.2	40
16	A 1D conical nanotubular TiO₂/CdS heterostructure with superior photon-to-electron conversion. Nanoscale, 2018, 10, 16601-16612.	5.6	39
17	Bismuth film electrode for stripping voltammetric measurement of sildenafil citrate. Electrochimica Acta, 2012, 60, 274-277.	5.2	38
18	CdS-coated TiO₂nanotube layers: downscaling tube diameter towards efficient heterostructured photoelectrochemical conversion. Nanoscale, 2017, 9, 7755-7759.	5.6	38

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19	Ti3+ doped anodic single-wall TiO2 nanotubes as highly efficient photocatalyst. Electrochimica Acta, 2020, 331, 135374.	5.2	38
20	Scaling up anodic TiO2 nanotube layers for gas phase photocatalysis. Electrochemistry Communications, 2018, 97, 91-95.	4.7	37
21	In-situ plated antimony film electrode for adsorptive cathodic stripping voltammetric measurement of trace nickel. Electrochemistry Communications, 2012, 20, 23-25.	4.7	36
22	Influence of the Ti microstructure on anodic self-organized TiO2 nanotube layers produced in ethylene glycol electrolytes. Applied Surface Science, 2016, 371, 607-612.	6.1	36
23	Anodic TiO₂ Nanotubes on 3D-Printed Titanium Meshes for Photocatalytic Applications. Nano Letters, 2021, 21, 8701-8706.	9.1	36
24	Comparison of photoelectrochemical performance of anodic single- and double-walled TiO2 nanotube layers. Electrochemistry Communications, 2018, 97, 1-5.	4.7	34
25	2D MoS₂ nanosheets on 1D anodic TiO₂ nanotube layers: an efficient co-catalyst for liquid and gas phase photocatalysis. Nanoscale, 2019, 11, 23126-23131.	5.6	34
26	High aspect ratio TiO2 nanotube layers obtained in a very short anodization time. Electrochimica Acta, 2021, 376, 138080.	5.2	34
27	Intrinsic properties of high-aspect ratio single- and double-wall anodic TiO2 nanotube layers annealed at different temperatures. Electrochimica Acta, 2020, 352, 136479.	5.2	34
28	TiO2 nanotubes grown on Ti substrates with different microstructure. Materials Research Bulletin, 2018, 103, 197-204.	5.2	29
29	Atomic Layer Deposition of SnO₂-Coated Anodic One-Dimensional TiO₂ Nanotube Layers for Low Concentration NO₂ Sensing. ACS Applied Materials & Interfaces, 2020, 12, 33386-33396.	8.0	28
30	Self-organized TiO 2 nanotubes grown on Ti substrates with different crystallographic preferential orientations: Local structure of TiO 2 nanotubes vs. photo-electrochemical response. Electrochimica Acta, 2018, 264, 393-399.	5.2	27
31	Thin TiO₂ Coatings by ALD Enhance the Cell Growth on TiO₂ Nanotubular and Flat Substrates. ACS Applied Bio Materials, 2020, 3, 6447-6456.	4.6	27
32	Fabrication of TiO2 nanotubes on Ti spheres using bipolar electrochemistry. Electrochemistry Communications, 2020, 111, 106669.	4.7	26
33	Macroporous Bismuth Film Screenâ€Printed Carbon Electrode for Simultaneous Determination of Ni(II) and Co(II). Electroanalysis, 2015, 27, 209-216.	2.9	25
34	New Interface for Purification of Proteins: One-Dimensional TiO₂ Nanotubes Decorated by Fe₃O₄ Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 28233-28242.	8.0	25
35	Atomic Layer Deposition of MoSe₂ Nanosheets on TiO₂ Nanotube Arrays for Photocatalytic Dye Degradation and Electrocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 12034-12045.	5.0	25
36	Laser-induced crystallization of anodic TiO₂ nanotube layers. RSC Advances, 2020, 10, 22137-22145.	3.6	23

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37	TiO₂ Nanotube/Chalcogenide-Based Photoelectrochemical Cell: Nanotube Diameter Dependence Study. Journal of Physical Chemistry C, 2017, 121, 6065-6071.	3.1	22
38	ALD growth of MoS2 nanosheets on TiO2 nanotube supports. FlatChem, 2019, 17, 100130.	5.6	22
39	Complex cytotoxicity mechanism of bundles formed from self-organised 1-D anodic TiO2 nanotubes layers. Journal of Hazardous Materials, 2020, 388, 122054.	12.4	22
40	Charge transport in anodic TiO₂ nanotubes studied by terahertz spectroscopy. Physica Status Solidi - Rapid Research Letters, 2016, 10, 691-695.	2.4	21
41	Anodic TiO2 nanotube walls reconstructed: Inner wall replaced by ALD TiO2 coating. Applied Surface Science, 2021, 549, 149306.	6.1	20
42	Anodization of electrodeposited titanium films towards TiO2 nanotube layers. Electrochemistry Communications, 2020, 118, 106788.	4.7	19
43	Pt nanoparticles decorated TiO2 nanotubes for the reduction of olefins. Applied Materials Today, 2018, 10, 86-92.	4.3	18
44	TiO2 ALD Coating of Amorphous TiO2 Nanotube Layers: Inhibition of the Structural and Morphological Changes Due to Water Annealing. Frontiers in Chemistry, 2019, 7, 38.	3.6	17
45	MoSe_xO_yâ€Coated 1D TiO₂ Nanotube Layers: Efficient Interface for Lightâ€Driven Applications. Advanced Materials Interfaces, 2018, 5, 1701146.	3.7	16
46	Wireless Electrosampling of Heavy Metals for Stripping Analysis with Bismuth-Based Janus Particles. Analytical Chemistry, 2014, 86, 10515-10519.	6.5	15
47	Cathodic adsorptive stripping voltammetric detection of tRNA by labelling with osmium tetroxide. Electrochemistry Communications, 2008, 10, 1614-1616.	4.7	13
48	Antireflection In₂O₃coatings of self-organized TiO₂nanotube layers prepared by atomic layer deposition. Physica Status Solidi - Rapid Research Letters, 2015, 9, 516-520.	2.4	13
49	Amorphous TiO₂ Nanotubes as a Platform for Highly Selective Phosphopeptide Enrichment. ACS Omega, 2019, 4, 12156-12166.	3.5	13
50	2D MoTe2 nanosheets by atomic layer deposition: Excellent photo- electrocatalytic properties. Applied Materials Today, 2021, 23, 101017.	4.3	12
51	Ideally Hexagonally Ordered TiO₂ Nanotube Arrays. ChemistryOpen, 2017, 6, 480-483.	1.9	10
52	Sulfur treated 1D anodic TiO2 nanotube layers for significant photo- and electroactivity enhancement. Applied Materials Today, 2019, 17, 104-111.	4.3	10
53	Self-supported sulphurized TiO2 nanotube layers as positive electrodes for lithium microbatteries. Applied Materials Today, 2019, 16, 257-264.	4.3	10
54	Self-organized double-wall oxide nanotube layers on glass-forming Ti-Zr-Si(-Nb) alloys. Materials Science and Engineering C, 2017, 70, 258-263.	7.3	9

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55	TiO2 Nanotube Layers Decorated with Al2O3/MoS2/Al2O3 as Anode for Li-ion Microbatteries with Enhanced Cycling Stability. Nanomaterials, 2020, 10, 953.	4.1	9
56	TiO2 nanotube layers decorated by titania nanoparticles as anodes for Li-ion microbatteries. Materials Chemistry and Physics, 2022, 276, 125337.	4.0	9
57	Preparation of porcupine-like Bi2O3 needle bundles by anodic oxidation of bismuth. Electrochemistry Communications, 2017, 84, 6-9.	4.7	7
58	Bismuth Oxychloride Nanoplatelets by Breakdown Anodization. ChemElectroChem, 2019, 6, 336-341.	3.4	6
59	Recent advancements in the synthesis, properties, and applications of anodic self-organized TiO2 nanotube layers. , 2020, , 173-209.		6
60	Scaling up anodic TiO2 nanotube layers â€“ Influence of the nanotube layer thickness on the photocatalytic degradation of hexane and benzene. Applied Materials Today, 2022, 29, 101567.	4.3	6
61	Wireless Anodization of Ti in Closed Bipolar Cells. ChemElectroChem, 2021, 8, 3827-3831.	3.4	4
62	Photoconductive, dielectric and percolation properties of anodic TiO₂ nanotubes studied by terahertz spectroscopy. Journal Physics D: Applied Physics, 2018, 51, 014004.	2.8	3
63	Highâ€Aspectâ€Ratio TiO₂ Nanotube Layers via Galvanostatic Anodization in an Electrolyte Containing Lactic Acid. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100146.	2.4	3
64	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. ECS Meeting Abstracts, 2020, MA2020-01, 837-837.	0.0	1
65	Laser Annealing of Anodic TiO2 Nanotubes: Explosive Solid Phase Crystallization into Anatase. , 2021, , .		0
66	(Invited) Anodic TiO2 Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2021, MA2021-01, 1928-1928.	0.0	0
67	High Aspect Ratio TiO2 Nanotube Layers Obtained in a Short Time. ECS Meeting Abstracts, 2021, MA2021-01, 791-791.	0.0	0
68	Secondary Material Modified Anodic TiO2 Nanotube Layers As Efficient Gas Sensors. ECS Meeting Abstracts, 2021, MA2021-01, 1483-1483.	0.0	0
69	Anodic TiO2 Nanotube Layers As Scaffolds for Deposition of Functional Materials. ECS Meeting Abstracts, 2021, MA2021-01, 926-926.	0.0	0
70	Anodic TiO2 Nanotube Layers As Scaffolds for Deposition of Functional Materials. ECS Meeting Abstracts, 2020, MA2020-01, 1202-1202.	0.0	0
71	New Protocols for the Synthesis of Anodic TiO2 Nanotube Layers. ECS Meeting Abstracts, 2021, MA2021-02, 601-601.	0.0	0
72	Anodic TiO2 Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2021, MA2021-02, 1439-1439.	0.0	0

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73	Anodic TiO2 Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2020, MA2020-02, 3061-3061.	0.0	0
74	Recent Progress in Anodic TiO₂ Nanotube Layer Synthesis. ECS Meeting Abstracts, 2020, MA2020-02, 1200-1200.	0.0	0
75	Atomic Layer Deposition for Modification of Various 1D Nanomaterials. ECS Meeting Abstracts, 2021, MA2021-02, 905-905.	0.0	0
76	2D Molybdenum Dichalcogenides by Atomic Layer Deposition. ECS Meeting Abstracts, 2021, MA2021-02, 903-903.	0.0	0
77	Bipolar Electrochemistry for the Synthesis of Anodic TiO₂ Nanotube Layers. ECS Meeting Abstracts, 2022, MA2022-01, 1978-1978.	0.0	0
78	Large-Scale Synthesis of Photocatalytic TiO₂ Nanotube Layers. ECS Meeting Abstracts, 2022, MA2022-01, 1587-1587.	0.0	0
79	Recent Advancements in Morphologies of TiO₂ Nanotube Layers and Their Photocatalytic Performance. ECS Meeting Abstracts, 2022, MA2022-01, 1586-1586.	0.0	0